

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE PROPERTY OR PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS:

1. A ratchet driver comprising a ratchet control assembly, a driver assembly rotatable relative to said ratchet control assembly, a ratchet sleeve operatively connected to said driver assembly, said ratchet sleeve having inwardly facing first and second control openings, said ratchet control assembly having first and second slots, said first and second slots having first and second stop slides, respectively mounted therein, means for moving said stop slides within said first and second control openings, respectively, stop slide control means, means for moving said stop slide control means to a position to move said first stop slide out of the first control opening and allow the second stop slide to be in said second control opening, said moving means adapted to move stop slide control means to a position to move said second stop slide out of said second control opening and allow the first stop slide to be in said first control opening, and said moving means adapted to move said stop slide control means to a position to allow said first and second stop slides to be in said first and second control openings.

2. A ratchet driver as set forth in claim 1, wherein said stop slide control means comprises a control cam.
3. A ratchet driver as set forth in claim 2, wherein said control cam is movable from a position between said stop slides to a position in front of said first stop slide and to a position in front of second stop slide.
4. A ratchet driver as set forth in claim 3, wherein said control cam comprises a curved control cam having tapered ends.
5. A ratchet driver as set forth in claim 4, wherein said control means comprises cam means.
6. A ratchet driver as set forth in claim 5, wherein said control cam is moved to one position whereas one of the ends is in front of said first stop slide and its other end is away from said second stop slide to a second position where both ends are away from said first and second stop slide to a third position where said second cam end is in front of the second stop slide and away from the front of first stop slide.

7. A ratchet driver as set forth in claim 6, wherein said second position comprises a position between said first and third positions.
8. A ratchet driver as set forth in claim 7, wherein said control assembly comprises an upwardly extending head portion and wherein said slots are in said head portion.
9. A ratchet driver as set forth in claim 8, wherein said slots are substantially parallel to each other.
10. A ratchet driver as set forth in claim 9, wherein said ratchet sleeve is mounted around the said head and said driver assembly.
11. A ratchet driver as set forth in claim 10, wherein said head has a ledge extending therefrom and wherein said ratchet sleeve is mounted on said ledge.
12. A ratchet driver as set forth in claim 11, wherein a pin extends from said control cam, said pin being adapted to control the movement of the control cam.
13. A ratchet driver as set forth in claim 12, wherein an outer cover overlies the driver assembly and the ratchet assembly and wherein said pin extends through said outer cover.

14. A ratchet driver as set forth in claim 13, wherein said driver assembly has a neck and sleeve adapter for driver bits to be attached thereto.
15. A rachet driver as set forth in claim 14, wherein spring means are mounted in said slots in order to move said stop slides out of said slots.